

**Claims:**

1. An isolated polynucleotide molecule encoding an insecticidal toxin, said polynucleotide molecule comprising a nucleotide sequence which substantially corresponds to one of the following:

5 (i) the nucleotide sequence shown as SEQ ID NO: 1;  
(ii) the nucleotide sequence shown as SEQ ID NO: 2; and  
(iii) the nucleotide sequence of a portion of (i) or (ii) which encodes an insecticidally-active toxin fragment.

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2. An isolated polynucleotide molecule according to claim 1, wherein said polynucleotide molecule comprises a nucleotide sequence which substantially corresponds to that shown as SEQ ID NO: 1..

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3. An isolated polynucleotide molecule according to claim 1, wherein said polynucleotide molecule comprises a nucleotide sequence which substantially corresponds to that shown as SEQ ID NO: 2.

4. An isolated polynucleotide molecule encoding an insecticidal toxin, said polynucleotide molecule comprising a nucleotide sequence having at least 85% sequence identity to the nucleotide sequence shown as SEQ ID NO: 2.

20 5. An isolated polynucleotide molecule according to claim 4, wherein said polynucleotide molecule comprises a nucleotide sequence having at least 95% sequence identity to the nucleotide sequence shown as SEQ ID NO: 2.

25 6. An insecticidal toxin, in a substantially pure form, which toxin comprises an amino acid sequence having at least 70% sequence identity to one of the following:

30 (i) the amino acid sequence shown as SEQ ID NO: 3;  
(ii) the amino acid sequence shown as SEQ ID NO: 4;  
(iii) the amino acid sequence of an insecticidally-active toxin fragment of (i) or (ii).

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7. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence having at least 85% sequence identity to that shown as SEQ ID NO: 3.
- 5 8. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence having at least 95% sequence identity to that shown as SEQ ID NO: 3.
- 10 9. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence substantially corresponding to that shown as SEQ ID NO: 3.
- 15 10. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence having at least 85% sequence identity to that shown as SEQ ID NO: 4.
11. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence having at least 95% sequence identity to that shown as SEQ ID NO: 4.
- 20 12. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence substantially corresponding to that shown as SEQ ID NO: 4.
- 25 13. A recombinant microorganism, the microorganism being characterised in that it is transformed with and expresses a polynucleotide molecule according to any one of the claims 1 to 5.
- 30 14. A recombinant microorganism according to claim 12, wherein the microorganism is selected from bacteria, protozoa and yeast.
15. A method of producing an insecticidal toxin, said method comprising:
  - (i) culturing a microorganism according to claim 13 or 14 under conditions suitable for the expression of the toxin-encoding polynucleotide molecule; and
  - 35 (ii) optionally recovering the expressed insecticidal toxin.

16. A method for killing pest insects, said method comprising applying to an area infested with said insects an effective amount of a recombinant microorganism according to claim 13 or 14 optionally in admixture with an acceptable agricultural carrier.

17. A recombinant insect-specific virus, the recombinant insect-specific virus being characterised in that it includes within a non-essential region of its genome a polynucleotide molecule according to any one of claim 1 to 5 operably linked to a suitable inducible or constitutive promoter sequence.

18. A method for killing pest insects, said method comprising applying to an area infested with said insects an effective amount of a recombinant virus according to claim 17 optionally in admixture with an acceptable agricultural carrier.

19. A plant transformed with, and capable of expressing, the polynucleotide molecule according to any one of claims 1 to 5.